



Department:	Fire
Bargaining Unit:	HFFU
Salary Range:	F-53
Last Revision:	June 2000

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## **FIRE ENGINEER**

### **DEFINITION**

To operate and maintain a variety of fire apparatus and firefighting equipment; to participate in firefighting activities, fire prevention inspections, and training; and to perform mechanical maintenance on vehicles, equipment, and apparatus.

### **SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from a Fire Captain.

Exercises technical supervision over other firefighters with respect to the operation and maintenance of vehicles, equipment, and apparatus.

**EXAMPLES OF IMPORTANT RESPONSIBILITIES AND DUTIES** - Responsibilities and duties may include, but are not limited to, the following:

Drive fire-pumping and aerial lift apparatus in response to alarms; operate pump at the incident scene, regulate water pressure through hose lines.

Operate and oversee the use of numerous types of vehicles, equipment, tools, and apparatus.

Inspect vehicles, equipment, and apparatus including aerial lift and pumping equipment; perform maintenance and minor repair work; identify the need for major repairs; maintain records of maintenance and overhauls.

Respond to emergency medical incidents, analyzing and taking command of patient care with full responsibility for the patient(s) until relieved by proper medical personnel.

Participate in fire inspection activities and other fire prevention and public education activities as assigned; ensure that businesses are operating in compliance with the fire code; maintain appropriate records and files.

Participate in fire drills; assist in conducting training sessions which include firefighting techniques, emergency medical care, and the proper use of all equipment and related tools.

Perform the duties of a Firefighter when pump is not being used at an incident site.

## **EXAMPLES OF IMPORTANT RESPONSIBILITIES AND DUTIES**

Participate in station maintenance work such as performing inspections and cleaning of equipment and facilities.

Perform related duties and responsibilities as required.

## **QUALIFICATIONS**

### **Knowledge of:**

Principles, practices, and procedures of modern firefighting.

Purposes and uses of a variety of vehicles, equipment, tools, and apparatus used in firefighting , rescue, and medical assistance operations.

Principles of mechanics, hydraulics, and mathematics as related to Fire Engineer duties.

First aid, C.P. R. and other basic medical assistance techniques.

Street and hydrant locations within the City.

### **Ability to:**

Effectively and safely drive and operate the full range of fire apparatus and equipment used by the department.

Perform field calculations of hydraulics for the proper and effective operations of equipment at emergency scenes.

Learn advanced first aid.

Demonstrate physical endurance, agility, strength, and stamina in the performance of hazardous tasks under emergency conditions; think and act quickly in emergencies.

Understand and follow oral and written directions promptly and accurately.

Establish and maintain cooperative relationships with those contacted in the course of work.

### **Experience and Training**

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

**Experience:**

One (1) year of municipal fire suppression and prevention experience comparable to that of a Firefighter.

**Training:**

Equivalent to completion of the twelfth (12th) grade preferably supplemented by completion of course work in fire science or a related field.

**Licenses and Certificates**

Possession of a Class B (F.D.) valid California driver's license.

Possession of, or ability to obtain, an appropriate, valid Emergency Medical Technician Certification.

Possession of an appropriate, valid California Firefighter I Certificate and Firefighter II Certificate.

Possession of a Fire Driver-Operator Certificate issued by the State of California.

**Effective Date:** July 1, 1991

**Amended:** June 5, 2000